#### Sherman, Teresa

From:

Sherman, Teresa

Sent:

Friday, May 07, 2010 8:13 AM

To:

'Ramesh Sundareswaran'

Subject: Preliminary 5-Year Review Summary Report for Claim Number 13162, 1092 E. Washington

Avenue, El Cajon, CA, SAM Case #H13057-002

#### Ramesh.

DEH/SAM received your Preliminary 5-Year Summary Report for the above Thrifty site (ARCO Facility #9533) on March 10, 2010. I apologize for the delay in this response, but as the new case manager, I needed to review the case files and several recent reports (and meet with Kevin Heaton- Hydrogeologist) before I could evaluate the summary. SAM staff agree with your conclusions and recommendations for the site, and understand from the summary that the State UST Cleanup Fund concurs with the ongoing corrective action at the site.

I plan to prepare a letter to the Responsible Party requesting a Workplan for the installation of one additional monitoring well in the southeast corner of the site (recommended by the consultant and cited in your conclusion #4) and approving the consultant's recommendation to convert the vapor extraction component of the MPE system to catalytic mode. In addition, I am going to request more information on the vapor and groundwater remediation system performances (including cumulative vapor recovery and mass removal graphs) in the next remediation report, so that we can discuss modifications to improve the system. Kevin Heaton also requested that we have the RP resample some of the weepholes entering the Washington Channel on the north side of the property.

Also, I made a correction in Geotracker on the address of the property. The correct address for the parcel is 1092 East Washington, not 1098 (which was what was on initial documents).

(5 year summary attached)

Take care. Teresa

Teresa Sherman **Environmental Health Specialist** County of San Diego, Department of Environmental Health Site Assessment and Mitigation Group (619) 338-2258

Mail Stop D-561

5/7/2010



### **State Water Resources Control Board**

#### **Division of Financial Assistance**

1001 I Street • Sacramento, California 95814
P.O. Box 944212 • Sacramento, California • 94244-2120
(916) 341-5684 FAX (916) 341-5806 • www.waterboards.ca.gov/cwphome/ustcf



Arnold Schwarzenegger

February 28, 2010

1092

MAR 1 0 2010 ENVIRONIVENTAL

Danny Martinez
San Diego County Department of Environmental Health
Site Assessment and Mitigation Program
P.O. Box 129261
San Diego, CA 92112-9261

## PRELIMINARY 5-YEAR REVIEW SUMMARY REPORT FOR CLAIM NUMBER 13162; 1098 E Washington Avenue, El Cajon, CA 92020

The UST Cleanup Fund (Fund) has completed our review of San Diego County Department of Environmental Health (County) case number H13057-002. The Preliminary 5-Year Review Summary Report for this case is enclosed for your information and comment. Please note that the Fund's recommendations are based on review of information contained in the Fund's case files, data currently in the Geotracker database and any other sources of information that were readily available to Fund staff at the time the review was conducted. Consequently, they may not reflect historical information that has not been uploaded to the Geotracker database or available in the Fund's case files and any data that has been recently submitted to your office. During our review we solicited input from your County caseworker to obtain the current status of corrective action at this site as well as information on any outstanding issues. If additional information was provided by the caseworker, it was considered by Fund staff and incorporated into our recommendations, if applicable.

The Fund requests that the County staff notify the Fund within 45 days from the date of this letter as to whether you agree or disagree with our recommendations for this case. If you agree with our recommendation, we request that you provide the Fund with an estimated timeframe to either implement the recommendations for additional corrective action or for closing this case. If you do not agree with our recommendations, we request that you provide the Fund with a summary of the reasons for disagreeing and/or impediments to implementing the recommendations for additional corrective action or closing this case. Responses to the Fund may be provided by e-mail, letter or a copy of correspondence to the RP, if the correspondence addresses all the information requested by the Fund. Please direct your response to:

Ramesh Sundareswaran Underground Storage Tank Cleanup Fund State Water Resources Control Board P.O. Box 944212 Sacramento, CA 94244-2120

California Environmental Protection Agency

Fund staff will be sending copies of all completed 5-Year Review Summary Reports to claimants 45 days from the date of this letter unless the County notifies the Fund that they wish to discuss this case prior to transmittal to the claimant. If you or your staff has any questions or concerns on specific reports that you would like to discuss with the Fund prior to transmittal of the report to the claimant, please contact Ramesh Sundareswaran at (916) 341-5670 or by email (rsundareswaran@waterboards.ca.gov) within this period.

Sincerely,

**Robert Trommer** 

Senior Engineering Geologist Chief, Technical Review Unit

Underground Storage Tank Cleanup Fund

cc: V Teresa Sherman, San Diego County DEH Julie Chan, RWQCB, San Diego Region

# Linda S. Adams Secretary for Environmental Protection

## State Water Resources Control Board

#### Division of Financial Assistance

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## PRELIMINARY USTCF 5-YEAR REVIEW SUMMARY

USTCF Claim No.: 13162

Claimant Name: Thrifty Oil Company Inc

Site Name: ARCO Facility # 9533

Site Address; 1098)E. Washington Avenue,

El Cajon

LOP: San Diego Dept of Environmental

Health (SDDEH)

Regional Board: R9

LOP Caseworker: Teresa Sherman Lead Agency Case No: H10357-002

Global ID: T0607301260

Date LOC Issued: 9/24/2002

USTCF Expenditures to Date: \$722,769

**USTCF Priority: C** 

#### I. CASE INFORMATION

Tank	Size in	Contents	Contents Closed in Place/		
No.	Gallons		Removed/Active?		
T001	10,000	Gasoline	Removed	1986	
T002	8,000	Gasoline	. Removed	1986	
T003	6,000	Gasoline	Removed	1986	
T004	280	Waste oil	Removed	1987	

#### **II. RELEASE INFORMATION T004**

Source of Release: UST system.

Date of Release: 1987.

Affected Media: Soil and groundwater (GW).

#### III. SITE CHARACTERIZATION INFORMATION

#### A. Site Information

- GW Basin: San Diego Hydrologic Unit; Lower San Diego Hydrologic Area; El Cajon Hydrologic Sub Area.
- Surface Water (SW): Washington Channel.
- GW Beneficial Uses: Municipal and domestic.
- SW Beneficial Uses: Agricultural, cold and warm freshwater habitats, industrial service, industrial process, water contact recreation, non-water contact recreation and wildlife habitat.
- Land Use Designation: Commercial and residential.
- Distance to Nearest Supply Well (Municipal or Domestic): According to GeoTracker, there are no active supply wells located within a ½-mile radius of

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the site. The consultant has however identified a domestic well approximately 1300 feet and an irrigation well approximately 2175 feet, both to the southeast of the site.

- Distance to Nearest Surface Water Body: The closest body is concrete lined Washington Channel located to the immediate north of the site.
- Minimum Groundwater Depth (historical): Approximately 2.31 feet below ground surface (bgs).

Maximum Groundwater Depth (historical): Approximately 15.47 feet bgs. Flow Direction: North-northwest.

- Soil Types: Silty sand, clayey sand, sandy clay and decomposed granite.
- Maximum Depth Sampled: Approx. 27 feet bgs.

#### **B.** Well Information

Well Designation	Date Installed	Screen Interval	Most Recent DTW	
		(feet bgs)	(feet bgs)	
			11/2009	
GT-1	1990	6-21	Approx. 13.23	
GT-2	1990	7-22	Approx. 12.39	
GT-3	1990	6-21	Approx. 5.77	
GT-4	1990	7-22	Approx. 9.17	
GT-5	1990	7-22	Approx. 9.68	
GT-6	1990	7-17	Approx. 12.80	
GT-7	1990	7-22	Approx. 12.89	
GT-8	1990	7-22	Approx. 12.96	
GT-9	1990	7-17	Approx. 10.40	
GT-10	1990	6-21	Approx. 8.61	
GT-11	2000	5-20	Approx. 9.31	
GT-12	2000	4.5-24.5	Approx. 7.81	
GT-13	2000	5-20	Approx. 12.18	
GT-14	2000	4.5-24.5	Approx. 8.04	
GT-15	2000	5-25	Approx. 5.67	
GT-16	2001	5-26	Approx. 10.11	
GT-17	2001	5-26	Approx. 10.28	
GT-18	2001	5-26	Approx. 9.99	
GT-19	2009	5-20	Approx. 9.06	
GT-20	2009	5-20	Approx. 9.68	
GT-22	2003	5-20	Approx. 10.11	
GT-23	2003	5-25	Approx. 9.39	
RS-1	1989	5-30	Approx. 13.33	
RS-2	1989	5-30	Approx. 9.53	
RS-3	1989	5-30	Approx. 10.89	

NA: Not available.

12/09

IV. MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATIONS							
Contaminant	Soil (m		RSI	_S	Water	(ug/L)	CA MCLs
	Maximum @ location & sampling date	Latest	Residential (mg/kg)	Industrial (mg/kg)	Maximum @ location & sampling date	Latest @ location & sampling date	(ug/L)
TPH-g	10,500@ RS3-5' 10/89	NA	NA	NA	FP@ GT-11 11/09	FP@ GT-11 11/09	NA
TPH-d	NA	NA	NA	NA	FP@ GT-11 11/09	FP@ GT-11 11/09	NA
Benzene	54@ RS3-5' / 10/89	NA	1.1	5.6	FP@ GT-11 11/09	FP@ GT-11 11/09	1
Toluene	196@ CB7-8' 6/05	NA	5000	46,000	FP@ GT-11 11/09	FP@ GT-11 11/09	150
Ethylbenzene	99@ CB7-8' 6/05	NA	5.7	29	FP@ GT-11 11/09	FP@ GT-11 11/09	300
Total Xylenes	533@ CB7-8' 6/05	NA	600	2600	FP@ GT-11 11/09	FP@ GT-11 11/09	1,750

TRPH/ 2770 mg/ky tunk revord 7/86

total extraction Agency

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9/02-44 tous excavated

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MTBE	2.01@ CB6-16' 6/05	NA	39	190	FP@ GT-11 11/09	FP@ GT-11 11/09	13 primary 5 secondary
TBA	NA	NA	NA :	NA	FP@ GT-11 11/09	FP@ GT-11 11/09	12 (NL)
1,2-DCA	NA	NA	0.45	2.2	NA ·	NA	0.5
Lead	NA	NA	400	800	NA	NA	15
PCE	NA	NA	0.57	2.7	NA	NA	5
TCE	NA	NA	2.8	14	NA	NA	5

RSLs USEPA Region 9 Regional Screening Levels

MCL Maximum Contaminant Levels

NL Notification Level

NA Not Analyzed, Not Applicable or Data Not Available

ND Not detected at or above method detection limits.

FP Free product measured at > 0.01 foot.

**V. FREE PRODUCT**: Free product was detected as recently as the last quarter of 2009. The free product had migrated offsite and encroached beneath adjacent residences.

#### VI. SOIL AND GROUNDWATER REMEDIATION

**A. Soil Excavation**: Approximately 44 tons of contaminated soil have been excavated and removed from the site.

#### B. In-Situ Soil Remediation:

- METHOD: High Vacuum Dual Phase Extraction (HVDPE). Multiphase extraction (MPE).
- DURATION: HVDPE was from 2002-2007. MPE has been ongoing from 2009.

#### C. Groundwater Remediation:

- METHOD: HVDPE. MPE.
- DURATION: HVDPE was from 2002-2007. MPE has been ongoing from 2009.

D. Groundwater Trends: Majority of the wells have consistently shown contaminant levels that are either low or non-detectable, measured over numerous monitoring rounds. However, there are some wells that are known to exhibit contaminant levels orders of magnitude above MCLs or have free product in them.

#### VII. COMMENTS AND JUSTIFICATION FOR RECOMMENDED ACTION

- A. Site Description: Site is an active fuel service station.
- **B.** Groundwater Monitoring Summary: Groundwater has generally been monitored periodically at the site since 1991.
- C. Remediation Summary: HVDPE for a period of approximately 5 years. MPE since 2009.
- **D. Vapor Pathway Evaluation:** A vapor risk assessment established no significant risks above regulatory thresholds to the occupants of adjacent residences.

#### E. Conclusions and Recommendation:

- 1. The primary source of the suspected contamination appears to have been minimized through the removal of the USTS and the excavation and removal of contaminated soils.
- 2. Mobile free product, consistently exceeding the (informal) California cleanup standard of a sheen, has been measured at the site. The free product has migrated offsite and has been found beneath adjacent residences.
- 3. The extent of soil contamination has been assessed and observed to be generally limited to the site.
- 4. The areal extent of the dissolved phase plume needs further definition particularly to the southeast.
- 5. The contaminant mass in the groundwater does seem to have experienced some losses over time.
- 6. There are no known supply water wells located within approximately 2500 feet of the site thereby eliminating any undue risks to a well in the vicinity from the dissolved plume at this time. The likelihood that the domestic and irrigation wells to the southeast of the site could be impacted is low given the dissolved plume's flow direction.
- 7. The site's contamination appears to have impacted the channel to the north of the site. A 2001 weep hole sampling exercise indicated the presence of trace amounts of petroleum contamination in the channel.
- 8. A vapor risk assessment established no significant risks to adjacent residences.

Date

The Fund concurs with the ongoing corrective action at the site.

Ramesh Sundareswaran

Water Resource Control Engineer

**Technical Review Unit** 

(916) 341-5670

Robert Trommer, CHG

Senior Engineering Geologist

Chief, Technical Review Unit

(916) 341-5684

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